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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,270	01/21/2004	Kia Silverbrook	RRA23US	1025
24011 7590 01/23/2009 SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, 2041 AUSTRALIA				
EXAMINER UHLENHAKE, JASON S				
ART UNIT 2853		PAPER NUMBER		
MAIL DATE 01/23/2009		DELIVERY MODE PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/760,270

Applicant(s)

SILVERBROOK, KIA

Examiner

JASON S. UHLENHAKE

Art Unit

2853

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 November 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SE-US)
Paper No(s)/Mail Date 8/22/2008
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/4/2008 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Reed (U.S. Pub. 2003/0081050) in view of Cook (U.S. Pat. 6,158,850)

Reed discloses:

- ***regarding claim 1***, an inkjet printer cradle including a body defining a recess dimensioned to locate a removable inkjet cartridge, the inkjet cartridge having a page width print head and an ink supply, such that the cradle and cartridge together form an inkjet printer (Paragraphs 0005-0006).

Reed does not expressly disclose a removable cartridge. However it would have been obvious incorporate a removable page width print head cartridge since it will need to be replaced when the ink in the cartridge is low or empty, the page width print head cartridge will be placed in a cradle (recess) of the ink jet printer so it is properly installed and secured during the printing operation

Reed does not disclose expressly the following:

- ***regarding claim 1***, a cartridge authentication device storing printing performance information of the print head and authentication information; a cradle authentication device storing printing performance information of the cradle and authentication information
- a verification circuit connected to the cradle authentication device and having terminals positioned upon the body to contact corresponding terminals located upon the cartridge authentication device upon insertion of the cartridge into the recess thereby facilitating electrical communication between the cradle and the print head of the cartridge for causing ink ejection from the print head and between the verification circuit and the cradle and cartridge authentication devices
- the cradle authentication device being configured to authenticate the cartridge from the stored printing performance and authentication information of the cartridge authentication device and the verification circuit being part of a processor of the cradle which is configured to authenticate authentication performed by the cradle authentication device, such that upon insertion of the cartridge into the recess the cradle

and cartridge together form an inkjet printer capable of printing at the authenticated printing performance

Cook discloses:

- ***regarding claim 1***, a cartridge authentication device storing printing performance information of the print head and authentication information; a cradle authentication device storing printing performance information of the cradle and authentication information (Column 5, lines 44-46, Column 6, Lines 25-38, Column 6, Line 66 – Column 7, Line 13)
- a verification circuit connected to the cradle (10) authentication device and having terminals (electrical interface) positioned upon the body to contact corresponding terminals (electrical interface) located upon the cartridge (12) authentication device upon insertion of the cartridge into the recess thereby facilitating electrical communication between the cradle and the print head of the cartridge for causing ink ejection from the print head and between the verification circuit and the cradle and cartridge authentication devices (Figure 1; Abstract; Column 2, Lines 58-67; Column 3, Lines 1-11; Column 6, Lines 25-38)
- the cradle authentication device being configured to authenticate the cartridge from the stored printing performance and authentication information of the cartridge authentication device and the verification circuit being part of a processor of the cradle which is configured to authenticate authentication performed by the cradle authentication device, such that upon insertion of the cartridge into the recess the cradle and cartridge together form an inkjet printer capable of printing at the authenticated

printing performance (Figure 1; Abstract; Column 2, Lines 34-36; 58-67; Column 3, Lines 1-11; Column 6, Lines 25-38)

Cook discloses the verification circuits and the ink refill unit. It would have been obvious to include an ink refill unit in the page width print head cartridge for the purpose of extending the useful life of the print head cartridge and reduce the cost of printing.

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of Cook into the device of Reed, for the purpose of extending the useful life of the print head cartridge, reducing the cost of printing and for determining if the cartridges are compatible and can properly perform the printing operation (Column 1, Lines 39-49; Column 2, Line 59 – Column 3, Line 12)

Claims 2-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reed (U.S. Pub. 2003/0081050) as modified by Cook (U.S. Pat. 6,158,850) as applied to claim 1 above, and further in view of Bolash (U.S. Pat. 6,183,063)

Reed as modified by Cook discloses:

- ***regarding claim 3 and 4***, wherein the recess is elongate (Paragraphs 0005-0006). Since it is known to use a page width print head cartridge, it is obvious the recess in which the print head is installed is elongated since the page width print head cartridge extends the width of the printing medium.

Reed as modified by Cook discloses all the claimed limitations except for the following:

- **regarding claim 2**, wherein the terminals are located upon one or more walls of the recess
- **regarding claim 3**, wherein the terminals are located on at least one end wall of the recess
- **regarding claim 4**, wherein the terminals are located on opposing end walls of the recess
- **regarding claim 5**, wherein the terminals comprise data and power terminals

Bolash discloses:

- **regarding claim 2**, wherein the terminals are located upon one or more walls of the recess (Figure 1A; Column 3, Line 65 – Column 4, Line 11), for the purpose of activating ink ejection devices on the print head
- **regarding claim 3**, wherein the terminals are located on at least one end wall of the recess. (Figure 1A: Column 3, Line 65 – Column 4, Line 11), for the purpose of activating ink ejection devices on the print head
- **regarding claim 4**, wherein the terminals are located on opposing end wall of the recess (Figure 1A: Column 3, Line 65 – Column 4, Line 11), for the purpose of activating ink ejection devices on the print head
- **regarding claim 5**, wherein the terminals comprise data and power terminals (Column 3, Line 65 – Column 4, Line 11), for the purpose of activating ink ejection devices on the print head. The ink ejection devices on the print head are activated, therefore it is obvious data and power is transmitted through the terminals.

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of Bolash into the device of Reed as modified by Cook, for the purpose of activating ink ejection devices on the print head

Response to Arguments

Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection. Please see the above rejection regarding Reed (U.S. Pub. 2003/0081050) in view of Cook (U.S. Pat. 6,158,850)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON S. UHLENHAKE whose telephone number is (571)272-5916. The examiner can normally be reached on Monday-Friday 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JASON S UHLENHAKE/
Examiner, Art Unit 2853
January 8, 2009

/Julian D. Huffman/
Primary Examiner, Art Unit 2853